

Storm Data and Unusual Weather Phenomena - August 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
IOWA, Southwest				
POTTAWATTAMIE COUNTY --- 22.9 N BARTLETT [41.21, -95.86], 23.0 N BARTLETT [41.21, -95.85]				
	08/04/16 16:21 CST	0		Tornado (EF0, L: 0.58 mi , W: 15 yd)
	08/04/16 16:36 CST	0		Source: Trained Spotter
<p>Numerous reports of a landspout were received of a landspout tornado over Lake Manawa in Council Bluffs . The tornado was viewed live on local television stations in the Omaha area, and received significant social media attention in the area. The tornado appeared to be nearly stationary over the lake, and no damage was reported in the area.</p> <p>A cold front slowly moved south during the afternoon on August 4th into eastern Nebraska and western Iowa. The front neared the Interstate 80 corridor by late afternoon. In addition, an outflow boundary from early storms in southeast Nebraska and southwest Iowa was lifting north. Isolated to scattered thunderstorms developed during peak heating along these two boundaries. Due to the combination of the thunderstorms developing on the stalling boundaries and very steep low-level lapse rates two landspout tornadoes were observed. Otherwise the thunderstorms were largely non-severe with gusty non-severe winds and heavy rainfall.</p>				
MONONA COUNTY --- 4.3 SSW BLENCOE [41.87, -96.10]				
	08/11/16 17:21 CST	0		Thunderstorm Wind (MG 55 kt)
	08/11/16 17:21 CST	0		Source: Department of Highways
Measurement was from the Iowa Department of Transportation.				
HARRISON COUNTY --- 2.1 N RIVER SIOUX [41.83, -96.05]				
	08/11/16 17:40 CST	0		Thunderstorm Wind (EG 52 kt)
	08/11/16 17:40 CST	0		Source: COOP Observer
The observer indicated the gusty winds lasted for nearly 15 minutes.				
SHELBY COUNTY --- 0.7 NW CORLEY [41.59, -95.34]				
	08/11/16 18:35 CST	0		Thunderstorm Wind (MG 50 kt)
	08/11/16 18:35 CST	0		Source: AWOS
<p>A cold front slowly worked south into northeast Nebraska and west central Iowa during the afternoon of August 11th as a weak storm system crossed the northern Plains. Although wind shear was weak, strong instability developed across the area as temperatures soared into the 90s with dew points in the 70s. Thunderstorms developed along the cold front in northeast Nebraska by late afternoon and moved southeast across west central Iowa and eastern Nebraska. Other thunderstorms also developed in south central Nebraska and north central Kansas and moved into southeast Nebraska. Isolated severe weather was observed with both lines of thunderstorms, along with heavy rainfall totals.</p>				
POTTAWATTAMIE COUNTY --- 0.5 W COUNCIL BLUFFS [41.27, -95.88]				
	08/23/16 21:08 CST	0		Thunderstorm Wind (MG 63 kt)
	08/23/16 21:08 CST	0		Source: Trained Spotter
Tree limbs up to 4 inches in diameter were blown down.				
<p>As a cold front moved into northeast Nebraska during the day on August 23rd, warm and moist air returned northward into the area along a warm front. As temperatures increased into the mid and upper 80s along and south of the warm front, thunderstorms began to develop by late afternoon. These thunderstorms continued to increase in coverage and intensity during the evening. Favorable shear along the warm front allowed for some of the storms to form into supercells and produce severe weather. Late in the evening the thunderstorms formed into a complex and moved southeast across eastern Nebraska and southwest Iowa with severe weather and heavy rainfall occurring.</p>				
NEBRASKA, East				
SAUNDERS COUNTY --- 4.0 S MEMPHIS [41.04, -96.47], 4.0 S MEMPHIS [41.04, -96.46]				
	08/01/16 15:21 CST	0		Tornado (EF0, L: 0.04 mi , W: 15 yd)
	08/01/16 15:25 CST	0		Source: Social Media
A brief landspout tornado was reported via social media. The tornado was small and last only a couple of minutes with no damage reported.				

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BUTLER COUNTY --- 1.7 WNW LOMA [41.14, -97.00]				
	08/02/16 01:25 CST		0	Thunderstorm Wind (EG 52 kt)
	08/02/16 01:25 CST		0	Source: COOP Observer
Some tree damage around town was noted from the observer from the wind gusts.				
<p>A complex of thunderstorms developed over central Nebraska and shifted east into eastern Nebraska during the early morning hours. Although the majority of these were non-severe, a strong thunderstorm did produce wind damage in Saunders County.</p>				
WAYNE COUNTY --- 0.7 N WAYNE [42.24, -97.02]				
	08/11/16 16:23 CST		0	Thunderstorm Wind (MG 52 kt)
	08/11/16 16:23 CST		0	Source: AWOS
THURSTON COUNTY --- 3.0 N THURSTON [42.22, -96.70]				
	08/11/16 16:42 CST		0	Thunderstorm Wind (EG 52 kt)
	08/11/16 16:42 CST		0	Source: Emergency Manager
The emergency manager reported that several trees were reported downed between Pender and Emerson.				
JEFFERSON COUNTY --- 0.9 SW FAIRBURY [40.14, -97.18]				
	08/11/16 18:30 CST		0	Thunderstorm Wind (EG 52 kt)
	08/11/16 18:30 CST		0	Source: Emergency Manager
A tree was blown down in the city of Fairbury that landed on a transformer and resulted in power outages.				
DOUGLAS COUNTY --- 1.9 ESE MILLARD [41.21, -96.08], 1.9 NW RALSTON [41.22, -96.06], 1.5 WNW RALSTON [41.21, -96.06], 1.9 ENE OMAHA MILLARD ARPT [41.21, -96.08]				
	08/11/16 21:00 CST		0	Flash Flood (due to Heavy Rain)
	08/11/16 21:01 CST		0	Source: Social Media
Social media reports and images indicated flooding along L Street in southwest Omaha from near 96th to 108th street with several cars stalled in the flooding.				
<p>A cold front slowly worked south into northeast Nebraska and west central Iowa during the afternoon of August 11th as a weak storm system crossed the northern Plains. Although wind shear was weak, strong instability developed across the area as temperatures soared into the 90s with dew points in the 70s. Thunderstorms developed along the cold front in northeast Nebraska by late afternoon and moved southeast across west central Iowa and eastern Nebraska. Other thunderstorms also developed in south central Nebraska and north central Kansas and moved into southeast Nebraska. Isolated severe weather was observed with both lines of thunderstorms, along with heavy rainfall totals.</p>				
KNOX COUNTY --- 4.5 WSW SANTEE [42.80, -97.90]				
	08/16/16 16:06 CST		0	Hail (1.75 in)
	08/16/16 16:06 CST		0	Source: Law Enforcement
KNOX COUNTY --- 7.6 N CROFTON [42.84, -97.48]				
	08/16/16 17:16 CST		0	Hail (2.00 in)
	08/16/16 17:16 CST		0	Source: Public
CEDAR COUNTY --- 4.6 NE MENOMINEE [42.83, -97.36]				
	08/16/16 17:30 CST		0	Hail (1.75 in)
	08/16/16 17:30 CST		0	Source: Social Media
LANCASTER COUNTY --- 0.9 SW WAVERLY [40.91, -96.53]				
	08/16/16 17:45 CST		0	Hail (0.75 in)
	08/16/16 17:45 CST		0	Source: Law Enforcement

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ANTELOPE COUNTY --- 6.3 SSW BRUNSWICK [42.25, -98.03]				
	08/16/16 18:36 CST		0	Hail (1.75 in)
	08/16/16 18:36 CST		0	Source: Law Enforcement
CASS COUNTY --- 0.5 W EAGLE [40.82, -96.43]				
	08/16/16 18:38 CST		0	Hail (1.50 in)
	08/16/16 18:38 CST		0	Source: Emergency Manager
LANCASTER COUNTY --- 1.4 N WALTON [40.82, -96.57]				
	08/16/16 18:38 CST		0	Hail (1.00 in)
	08/16/16 18:38 CST		0	Source: Storm Chaser
LANCASTER COUNTY --- 0.5 W BENNET [40.68, -96.51]				
	08/16/16 19:00 CST		0	Hail (1.75 in)
	08/16/16 19:00 CST		0	Source: Trained Spotter
OTOE COUNTY --- 3.9 WSW PALMYRA [40.68, -96.45]				
	08/16/16 19:00 CST		0	Hail (1.00 in)
	08/16/16 19:00 CST		0	Source: Trained Spotter
Thunderstorms developed in two areas on the evening August 16th. The first area was over northeast Nebraska along a weak stalled boundary, and the second area was along an outflow boundary over southeast Nebraska. The combination of favorable instability and shear in both of these areas allowed for marginal supercell structures and severe weather, mainly in the form of large hail. The thunderstorms dissipated by late evening with the loss of surface heating.				
DOUGLAS COUNTY --- 1.0 W IRVINGTON [41.32, -96.07]				
	08/23/16 17:30 CST		0	Hail (0.75 in)
	08/23/16 17:30 CST		0	Source: NWS Employee
DOUGLAS COUNTY --- 1.3 WNW BENNINGTON [41.38, -96.19]				
	08/23/16 18:20 CST		0	Thunderstorm Wind (EG 52 kt)
	08/23/16 18:20 CST		0	Source: NWS Employee
Large tree limbs, 4 to 6 inch in diameter, blown down along Highway 36.				
WASHINGTON COUNTY --- 5.2 E WASHINGTON [41.40, -96.12]				
	08/23/16 18:30 CST		0	Hail (0.88 in)
	08/23/16 18:30 CST		0	Source: NWS Employee
WASHINGTON COUNTY --- 1.8 ENE WASHINGTON [41.41, -96.19], 1.9 NE WASHINGTON [41.42, -96.19]				
	08/23/16 18:35 CST		0	Tornado (EF0, L: 0.19 mi , W: 25 yd)
	08/23/16 18:36 CST		0	Source: NWS Employee
A rapidly rotating wall cloud was observed to the north northeast of the town of Washington . The wall cloud produced a funnel that briefly had a condensation to the surface with a dust debris cloud present. No damage was observed in the area from the tornado.				
WASHINGTON COUNTY --- 2.8 ENE WASHINGTON [41.42, -96.17], 2.9 ENE WASHINGTON [41.42, -96.17]				
	08/23/16 18:58 CST		0	Tornado (EF0, L: 0.10 mi , W: 25 yd)
	08/23/16 18:59 CST		0	Source: NWS Employee
A second brief touchdown was observed from the same supercell that produced the earlier tornado . This brief touchdown occurred just to the northeast of the previous touchdown. No damage was observed in the area.				
WASHINGTON COUNTY --- 3.8 SSW DE SOTO [41.45, -96.10]				
	08/23/16 19:32 CST		0	Hail (1.00 in)
	08/23/16 19:32 CST		0	Source: Public
DODGE COUNTY --- 0.6 NNE FREMONT [41.46, -96.49], 1.9 SSE FREMONT [41.43, -96.48]				

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	08/23/16 20:07 CST		0	Thunderstorm Wind (EG 61 kt)
	08/23/16 20:13 CST		0	Source: Emergency Manager

A downburst appeared to have occurred in the city of Fremont. The primary damage centered from midtown to the southeast side of town. In this area significant tree damage occurred including large branches downed and some uprooted. Power line and pole damage was also noted.

WASHINGTON COUNTY --- 0.9 SE BLAIR [41.54, -96.14], 1.9 NNW KENNARD [41.50, -96.21], 1.9 N WASHINGTON [41.43, -96.22], 3.5 ENE WASHINGTON [41.41, -96.15]

08/23/16 20:40 CST	0	Flash Flood (due to Heavy Rain)
08/23/16 22:30 CST	0	Source: Trained Spotter

Very heavy rainfall from a nearly stationary thunderstorm produced amounts of 5 to 7 inches in the area. This led to flash flooding, which closed State Highway 133 and U.S. Highway 30 near Blair, NE. County roads P29 and P26 were also closed due to flooding.

DOUGLAS COUNTY --- 0.3 E CLEARIDGE [41.32, -96.02], 0.7 N (OMA)EPPELY FLD OMAH [41.31, -95.90]

08/23/16 20:42 CST	0	Thunderstorm Wind (MG 83 kt)
08/23/16 20:59 CST	0	Source: ASOS

A series of downbursts occurred across northwest and northeast Omaha. The majority of the damage was centered Sorensen Parkway where significant tree, power line and pole damage was observed. Large tree limbs were blown down and some trees were uprooted. Some damage did occur at Eppley Airfield where small planes were moved or flipped. This closed the airport for some time after the storms passed. A maximum wind gust of 96 mph was recorded at the airport.

DOUGLAS COUNTY --- 0.9 ESE OMAHA [41.27, -95.98], 1.2 W GIBSON [41.25, -95.99], 0.9 WSW GIBSON [41.25, -95.99], 0.6 NNW GIBSON [41.26, -95.98], 1.1 ESE OMAHA [41.27, -95.98]

08/23/16 21:47 CST	0	Flash Flood (due to Heavy Rain)
08/24/16 01:00 CST	0	Source: Broadcast Media

Several reports of flash flooding from high rainfall rates were received from the media and on social media. The main area of flooding was centered around Saddle Creek in central Omaha, but there were also reports along L street in southwest Omaha as well. The street flooding led to several cars becoming stranded.

As a cold front moved into northeast Nebraska during the day on August 23rd, warm and moist air returned northward into the area along a warm front. As temperatures increased into the mid and upper 80s along and south of the warm front, thunderstorms began to develop by late afternoon. These thunderstorms continued to increase in coverage and intensity during the evening. Favorable shear along the warm front allowed for some of the storms to form into supercells and produce severe weather. Late in the evening the thunderstorms formed into a complex and moved southeast across eastern Nebraska and southwest Iowa with severe weather and heavy rainfall occurring.

OTOE COUNTY --- 2.1 NNE PAUL [40.60, -95.87]

08/28/16 14:40 CST	0	Thunderstorm Wind (MG 56 kt)
08/28/16 14:43 CST	0	Source: AWOS

OTOE COUNTY --- 0.7 N SYRACUSE [40.66, -96.18], 0.8 NW SYRACUSE [40.66, -96.19], 0.5 NW SYRACUSE [40.65, -96.19], 0.2 N SYRACUSE [40.65, -96.18]

08/28/16 14:59 CST	0	Flash Flood (due to Heavy Rain)
08/28/16 14:59 CST	0	Source: Social Media

Social media images and trained spotter reports indicated flash flooding occurred in the city of Syracuse. Flowing water was indicated to be at least 1 foot deep in some locations in the city.

A very moist and unstable airmass resided over southeast Nebraska on the afternoon of August 28th. As temperatures warmed into the upper 80s isolated to scattered thunderstorms developed. Although the majority of these storms were non-severe a localized downburst did occur near Nebraska City. Also due to the slow moving nature of the storms some heavy rain and flash flooding was reported.